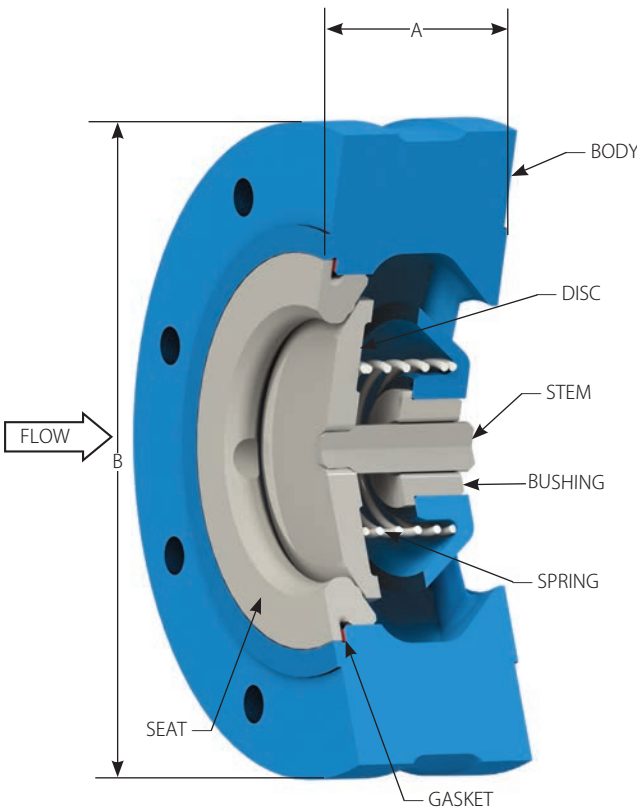


The **TLW® Check Valve** (Tapped Lug Wafer) was engineered for applications where exposed bolts are not suitable. This non-slam spring-assisted, center-guided, lugged pattern wafer check valve is designed to prevent water hammer and reverse flow. The lightweight compact design fits between mating flanges and meets API 594 Face-to-Face dimensions. The TLW Check Valve body design eliminates potential leak paths to the environment and is an easy-to-maintain check valve for applications involving liquids, gases, or steam. Tapped holes are provided in the body for lifting lugs to assist with installation (10" and larger sizes only).

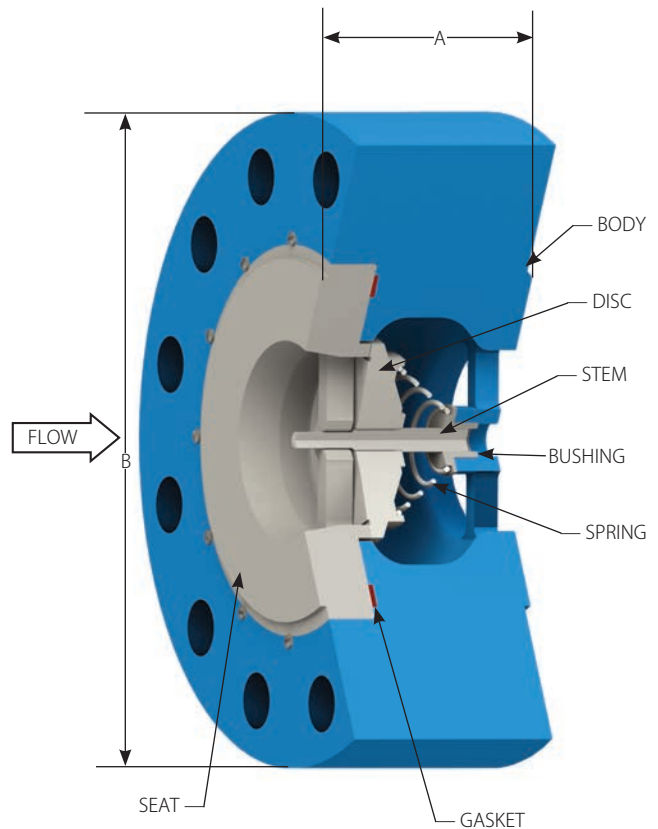


## FEATURES:

- API 594 Face-to-Face dimensions
- Threaded Lug Design
- ASME B16.5 bolt hole pattern
- RF Wafer ends
- Spring-assisted silent closing
- Sizes 2" thru 24"
- Horizontal or vertical installation
- ASME Class 150 and 300
- Standard body materials:
  - A216 Grade WCB carbon steel
  - A351 CF8M stainless steel
- Stainless steel seat, disc & bushing
- Nitronic® 60 stem
- Inconel® X-750 Spring
- Seat Leakage per MSS SP-61
- Tapped holes in body for lifting lugs (10" size and larger)
- Axial flow
- Nozzle style
- Options:
  - 316 SS spring
  - Custom sizing - low flow
  - Soft seat (for bubble-tight shutoff)
  - NACE (Page 47)



TLW® Body Style for Class 150/300



TLW® Dual Guided Body Style for  
2" to 12"  
Class 600 / 900 / 1500

Consult pages 48 and 49 for Pressure/Temperature ratings and soft seat materials.

Class	150 RF	300 RF	
<b>2"</b>	<b>A</b>	2.38	2.38
	<b>B</b>	6.00	6.50
	<b>Weight</b>	15	17
	<b>Cv</b>	120	120
	<b>CP</b>	0.65	0.65
<b>2 1/2"</b>	<b>A</b>	2.62	2.62
	<b>B</b>	7.00	7.50
	<b>Weight</b>	20	22
	<b>Cv</b>	205	205
	<b>CP</b>	0.69	0.69
<b>3"</b>	<b>A</b>	2.88	2.88
	<b>B</b>	7.50	8.25
	<b>Weight</b>	29	32
	<b>Cv</b>	260	260
	<b>CP</b>	0.63	0.63
<b>4"</b>	<b>A</b>	2.88	2.88
	<b>B</b>	9.00	10.00
	<b>Weight</b>	38	42
	<b>Cv</b>	430	430
	<b>CP</b>	0.59	0.59
<b>6"</b>	<b>A</b>	3.88	3.88
	<b>B</b>	11	12.50
	<b>Weight</b>	71	79
	<b>Cv</b>	825	825
	<b>CP</b>	0.59	0.59

Class	150 RF	300 RF	
<b>8"</b>	<b>A</b>	5.00	5.00
	<b>B</b>	13.50	15.00
	<b>Weight</b>	123	134
	<b>Cv</b>	1310	1310
	<b>CP</b>	0.55	0.55
<b>10"</b>	<b>A</b>	5.75	5.75
	<b>B</b>	16.00	17.50
	<b>Weight</b>	197	210
	<b>Cv</b>	1875	1875
	<b>CP</b>	0.53	0.53
<b>12"</b>	<b>A</b>	7.13	7.13
	<b>B</b>	19	20.50
	<b>Weight</b>	289	302
	<b>Cv</b>	2525	2525
	<b>CP</b>	0.53	0.53
<b>14"</b>	<b>A</b>	7.25	8.75
	<b>B</b>	20.25	22.00
	<b>Weight</b>	317	440
	<b>Cv</b>	2950	3275
	<b>CP</b>	0.55	0.55

Class	150 RF	300 RF	
<b>16"</b>	<b>A</b>	7.50	9.13
	<b>B</b>	23.00	24.50
	<b>Weight</b>	440	635
	<b>Cv</b>	3300	4100
	<b>CP</b>	0.50	0.50
<b>18"</b>	<b>A</b>	8.00	10.38
	<b>B</b>	24.38	26.88
	<b>Weight</b>	520	810
	<b>Cv</b>	3475	5040
	<b>CP</b>	0.55	0.55
<b>20"</b>	<b>A</b>	8.62	11.50
	<b>B</b>	27.00	29.00
	<b>Weight</b>	708	1012
	<b>Cv</b>	3750	6050
	<b>CP</b>	0.54	0.57
<b>24"</b>	<b>A</b>	8.75	12.50
	<b>B</b>	31.50	35.00
	<b>Weight</b>	945	1550
	<b>Cv</b>	5150	8325
	<b>CP</b>	0.52	0.57

For Class 600 / 900 / 1500 / 2500, consult DFT factory.

## MATERIALS OF CONSTRUCTION

COMPONENT	CARBON STEEL BODY	STAINLESS STEEL BODY
Body	A216 Grade WCB	A351 CF8M
Disc/Stem Assembly	316 SS/Nitronic® 60	316 SS/Nitronic® 60
Seat	316 SS	316 SS
Spring	Inconel® X-750	Inconel® X-750
Bushing	316 SS (1)	316 SS (1)
Gasket (2)	CFG (3)	CFG (3)

### SOFT SEAT - Maximum operating temperatures of materials

MATERIALS	BUNA-N	EPDM	VITON® & TFE-EN-CAPSULATED VITON®	ZELON®
TEMP. (°F)	-70 to 250	-75 to 300	-40 to 400	37 to 470

- Notes:**
1. Teflon® bushing on 14", 16", 18", 20" and 24".
  2. Gaskets only used on valves 10" and larger.
  3. 316/Graphite material.

Contact DFT for additional sizes/pressure classes.

WARNING: It is NOT recommended that any DFT check valve be used for dead end service.

All dimensions are in inches. Weights are in pounds. For metric measurements, visit [www.dft-valves.com](http://www.dft-valves.com). CP: Cracking Pressure (psig)